ProMedica Laboratories

News Alert

Free & Bioavailable Testosterone (Calculations)

Testing Update

Notification Date: November 12, 2026
Effective Date: November 17, 2026

Effective November 17, 2026, ProMedica Laboratories will begin offering in-house Free and Bioavailable Testosterone testing.

Free testosterone results are calculated using the Vermeulen equation, which incorporates results from total testosterone (measured by immunoassay), albumin, and sex hormone-binding globulin (SHBG). The calculated free testosterone value is used to determine bioavailable testosterone.

Available Tests

Test Name	EPIC Test Code	Order Code	Result Components
Free Testosterone Calculated, Adult Male	LAB4596	FRTESTO	Free Testosterone (pg/mL)
Free & Total Testosterone w/ SHBG	LAB4597	FTTESTO	Testosterone (ng/mL) Free Testosterone (pg/mL) % Free Testosterone (%) SHBG (nmol/L) Albumin (g/dL)
Bioavailable & Total Testosterone w/ SHBG	LAB4595	BIOTESTO	Testosterone (ng/mL) Free Testosterone (pg/mL) % Free Testosterone (%) Bioavailable Testosterone (ng/mL) SHBG (nmol/L) Albumin (g/dL)

Important Clinical Considerations

These calculated assays are not recommended for patients with low testosterone concentrations (<1.5 ng/mL), such as pediatric and female patients. For these populations, testosterone testing by mass spectrometry is recommended and will continue to be referred to an approved reference laboratory.

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ProMedica Laboratories Customer Service Department
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Collection Requirements

- Preferred Container: GRN-PST
- Acceptable Container: SST
- Collection Volume: 5 mL
- Turnaround Time: 24 hours
- Allow specimen to clot completely at room temperature.
- Centrifuge the specimen as soon as possible.
- If the specimen is not collected in a separator tube, promptly aliquot and transfer the serum or plasma to an appropriate transport tube.

Specimen Stability

- **Room Temperature:** 8 hours
- **Refrigerated (2-8°C):** 48 hours

Testing Schedule: Sunday through Saturday

Questions: For additional information, please contact ProMedica Laboratories Customer Service at 419-291-4134.

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